Amendments to the Specification:

In the Abstract:

Time-frequency coding in a multi-band ultra-wideband system is generally described. In

this regard a hopping code agent is presented to select a frequency hopping code for

encoding and decoding from a set of predetermined FHC's for communicating with

other devices in a multi-band ultra-wideband (MB-UWB) network, wherein the FHC

defines a sequence of two or more pulses over two or more frequencies and wherein

the FHC's include a time slot that contains no transmission. Other embodiments are

also disclosed and claimed.

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